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3. cavity nesters -- Ditman, 1995
4. destruction by house wrens -- Belles-Isles & Picman, 1996
5. early -- Stevenson, 1932
6. eastern bluebird -- Hamilton, 1943
7. function of sticks in house wren nests -- Alworth, 1996
8. habits -- Stockard, 1905
9. impact from humans -- Bart, 1977
10. in dryer vent -- Koonz, 1993
11. late -- Ripy, 1974; Whiteman, 1946
12. materials used -- Tate, 1926
13. mountain bluebirds -- Bardon, 1991
14. northern Idaho -- Hand, 1939
15. notes on -- Low, 1933
16. observations by bird banding -- Lasey, 1942
17. on mined lands -- Allaire, 1976
18. over water -- Tuttle, 1991d
19. re-mating -- Broderick, 1938
20. study -- Laskey, 1939b; Rustad, 1972a
21. study of mountain bluebird -- Haecker, 1948
22. success in parkways -- Atkinson, 1990
23. tree swallow study -- Rustad, 1972b
24. triple -- Taylor, 1984
25. unusual -- Sprunt, 1946
26. unusual mountain bluebird -- Murie, 1934
27. miles to re-nest -- Scott & Lane, 1974

## Nesting Sites

1. attachment to and reproductive efficiency -- Pinel, 1980
2. between-year site fidelity -- Ingold, 1996
3. characteristics of western bluebird -- Sims, 1983
4. dipper nest by mountain bluebird -- Calder, 1970

5. evaluation of -- Parren, 1991, 1992
6. fenceposts -- Pierson & Scanlon, 1986
7. forest edge selection by tree swallows -- Rendell & Robertson, 1990
8. hat trick -- Elphinstone, 1986
9. investigating by video camera -- Proudfoot, 1996
10. livestock guards help -- Tuttle, 1982
11. mountain bluebird in Cimarron County (OK) -- Shackford & Grisby, 1993
12. natural vs. artificial -- Brawn, 1988
13. natural, of mountain bluebird -- Thompson, 1987
14. nest box sites, selection by bluebirds, swallows, wrens -- Parren, 1991
15. nest-site relationships among cavity-nesting birds -- Dobkin et al., 1995
16. oil burners -- Partin, 1958
17. old nest material, effects on tree swallow nest choice & building -- Rendell & Verbeck, 1996c
18. on mined lands -- Allaire, 1979
19. partitioning in oak woodland -- Owens, 1984
20. ponderosa made for bluebirds -- Pinkowski, 1981
21. remote natural -- Kiviat, 1982
22. selection -- Kruger, 1985a; Pinkowski, 1970c
23. selection by mountain bluebirds -- Herlugson, 1981
24. selection in high forest drainage -- Li & Martin, 1991
25. selection of artificial -- Rounds, 1985
26. tree swallow -- Cohen, 1976
27. treeless lava flows -- Rich, 1984
28. unusual -- Horn, 1969; McCaha & Bay, 1998
29. use by cavity nesters -- Gauthier & Peterson, 1985
30. utilization of natural -- Pierson, 1978

#### Nesting Success

1. breeding season and clutch size -- Peakall, 1970
2. causes of failure -- Peters et al., 1998
3. comparison of old and new trails -- Cousineau & Morse, 1986
4. dispersal dependent on -- Gowaty & Plissner, 1997
5. effects of old nest material on tree swallow success -- Rendell & Verbeck, 1996
6. guide to -- Scriven, 1989
7. guide to attracting -- Stokes & Stokes, 1991
8. in clearcuts -- Conner & Adkisson, 1974
9. in high forest drainage -- Li & Martin, 1991
10. in house under construction -- Laskey, 1971
11. in Myles Standish State Forest -- Carter, 1992
12. in Orange County, CA -- Purvis, 1997
13. influenced by carbaryl -- Bednarck & Davidson, 1967
14. insecticides as factor -- Jaco & Hulse, 1963
15. long term study -- Radunzel et al., 1997
16. key to cause of failure -- Pinkowski, 1975a
17. mountain bluebird management -- Shantz, 1986
18. notes -- Bowman, 1960
19. techniques to improve -- Swanson, 1980
20. unsuccessful -- Quinn, 1956
21. western bluebird -- Sims, 1983

## Pairing (see also swallow)

1. attraction to -- Plissner & Gowaty, 1995
2. bluebird-swallow balance -- Boone, 1982
3. double and triple boxes -- Gillis & Prescott, 1985
4. double nesting -- Orthwein, 1998
5. experience with paired boxes -- Eno, 1997
6. friendly competition -- Toops, 1995
7. nesting activity & feeding patterns -- Palahniuk, 1994; Palahniuk & Bakko, 1995
8. observations -- Berner, 1998
9. success -- Gardner & Stiles, 1985
10. to reduce competition -- Prescott, 1982

## Parasitism

1. acanthocephalan -- Thompson-Crowley et al., 1979
2. arthropods in nest boxes -- Eckerlin, 1996
3. blowflies -- Johnson, 1932; Mason, 1944; Roby, Brink & Wittman, 1992; Zeleny, 1986d
4. blowflies and nestling development -- Wittman, 1990
5. blowflies and parasitic wasps -- Darling & Thomas-Delaney -- 1993
6. blowflies in natural and artificial nests -- Pinkowski, 1977e
7. blowfly effects on nestlings -- Wittmann & Beason, 1992
8. blowfly larvae -- Demas, 1989
9. blowfly larvae, fire ant predation -- Sims, 1995
10. conspecific nest -- Gowaty & Bridges, 1991
11. control in nest boxes -- Jackson, 1985a
12. cowbird -- Friedman, 1934; Pinkowski, 1974f
13. cowbird, brown-headed -- Woodward & Woodward, 1979
14. eastern bluebird -- Roberts, 1981
15. ectoparasites, old nest material -- Rendell & Verbeck, 1996a
16. endoparasitism -- Elzroth, Cromack & Thompson-Cowley, 1980
17. external parasites -- Peters, 1936
18. in starling -- Musselman, 1942
19. insects -- Kenaga, 1961
20. invertebrate fauna in nests -- Chow, Burt & Johnston, 1983
21. nasal mites -- Pence, 1973a, 1973b
22. nematodes -- Pence, 1972
23. nest box to reduce blowflies -- Campbell, 1982
24. northern fowl mites -- Neece, 1990
25. removal of old nest material -- Johnson, 1996; Pacejka & Thompson, 1996
26. role of arthropods -- Jackson, 1985b
27. trematodes -- Kibler, 1968b, 1968c; Pinkowski, 1976e
28. worms in nasal passages -- Hyland & Ford, 1962

## Perches

1. natural -- Betts, 1980



## Pesticides

1. carbaryl on nesting success -- Bednarak & Davidson, 1967
2. carbaryl suspected in death -- Kreuger, 1988
3. contamination and eggshell characteristics -- Den, 1985
4. DDT and bluebird and wren nestings -- Thomas & McClusky, 1974
5. DDT effects on wren and bluebird reproduction -- McClusky, Thomas & Meslow, 1977
6. DDT residues in eggs -- Henny, Olson & Meeker, 1977
7. dioxin sludges and wild birds -- Thiel et al., 1988
8. effects of 2, 4, 5-T on birds -- Martin, 1966
9. effects of toxins -- King, 1998
10. embryotoxicity -- Nosek et al., 1993
11. herbicides, dead tree swallows -- Stiles, 1992
12. insecticides as factor in nesting success -- Jaco & Hulse, 1963
13. organochlorine contaminants in foodweb -- Hebert et al., 1994.
14. rotene for boxes -- Potter, 1967
15. use in nest boxes -- Kruger, 1985b
16. use near birds -- Jackson, 1985a

## Peterson Box (see also nest boxes)

1. about the box - Scriven, 1998
2. dissecting the box -- Berner, 1998
3. entrance hole -- Davis, 1997
4. starlings find box no challenge -- Kridler, 1990
5. testing -- Davis, 1995b

## Photography

1. of bluebird -- Hegner, 1899

## Population

1. breeding density in ponderosa pines -- Brawn, Boeklen & Balda, 1987
2. causes of decline -- Prescott, 1980
3. census methods -- Pinkowski, 1982
4. changes after timber harvesting -- Franzerb, 1977
5. decline -- Atkinson, 1974
6. dispersals -- Tuttle, 1991b, 1991c
7. demographic correlates of extra pair fertilization -- Gowaty & Bridges, 1991
8. eastern bluebirds density in southeast -- Dupree, 1985
9. effects of winter on -- Pitts, 1978d
10. effects of 2, 4, 5-T on -- Martin, 1966
11. estimates of trends -- Geissler & Noon, 1981
12. factors influencing in Manitoba -- Miller, 1970
13. fire effect -- Clark, 1935
14. five-year experience -- Sister Barbara Ann, 1970

15. fluctuations -- Pitts, 1981
16. historical changes -- Pitts, 1984
17. increase in mountain bluebirds -- Henderson, 1903
18. influence of forest succession -- Hooven, 1969
19. lowland hard communities -- Samson, 1979
20. nest sites limit -- Brawn & Balda, 1988
21. New Mexico -- Tatschl, 1967
22. pine habitat -- Brawn, 1985
23. rebound in Mississippi -- Murray, 1993
24. recent trends -- Sauer & Droege, 1990
25. seasonal densities in pinelands -- Guillory, Allen, Stagg & Parris, 1989
26. status of birds in Alaska -- Ritchie & Ambrose, 1992
27. status in Oklahoma -- Tylker & Bechtold, 1996
28. sympatric western and mountain bluebirds -- Herlugson, 1980
29. trends -- Andrews & Bock, 1979
30. western and mountain bluebird in Washington -- Herlugson, 1978
31. winter abundance -- Root & Andrews, 1981

#### Power

1. reply to -- Barash, 1980

#### Predation (see also guards and predators)

1. avian, on nestlings -- Pearman, 1991
2. black rat snake -- Hensley & Smith, 1986
3. bluebird on shrew -- Pinkowski, 1974d
4. bluebird vs. meadow vole -- Sindelar, 1967
5. bluebirds and thrasher on snake -- Flanigan, 1971
6. by house sparrow -- Gowaty, 1984
7. eastern chipmunk -- Miller, 1968
8. enemies -- Lane, 1971
9. gopher snake attraction to nests -- Eichholz & Koenig, 1992
10. kestrel on nestling bluebird -- Havera & Havera, 1983
11. netting, protection from snakes -- Blair, 1993
12. nest lowering to prevent -- Read, 1988
13. new threats -- Robbins, 1988
14. possible by ants -- Hurst, 1980a
15. possible by fire ants -- Hurst, 1980b
16. protection -- Bole, 1905
17. PVC elbow -- Cash, 1990
18. raccoon, tests -- Berner, McGettigan & Krieger, 1991
19. reducing -- Boone, 1981
20. snake -- Laskey, 1946
21. sparrow hawk -- Drinkwater, 1953
22. tangletrap for snakes -- Davis, 1988
23. wren on eggs and nestlings -- Quinn & Holroyd, 1989

#### Predators

1. birds on spruce beetles -- Baldwin, 1968
2. deer mouse -- Swenson, 1968
3. discouraging -- Fuerst, 1988
4. experiments with raccoons -- Davis, 1993a
5. female sparrow on nestlings -- Zeleny, 1984a
6. protecting nest box from -- Patterson, 1981; Wood, 1996
7. raccoons -- Davis, 1995a
8. raccoon, cat and squirrel -- Cash, 1990
9. snakes -- de Waard, 1984

#### PVC

1. house attracts bluebirds, not sparrows -- Gilbertson, 1991
2. nest boxes, sparrow resistant -- Kriedler, 1988
3. plastic elbow vs. predation -- Cash, 1990
4. PVC nest box update -- Gilbertson, 1993

#### Races

1. middle-American bluebird races -- Webster, 1973
2. new *Sialia* in Mexico -- Moore, 1939; Oberholster, 1917
3. new birds in Mexico -- Anthony, 1889
4. new bluebird in El Salvador -- Dickey & van Rossen, 1930
5. new in Mexico -- Anthony, 1889
6. new in North America -- Bangs, 1898
7. new subspecies from Nicaragua -- Howell, 1965

#### Records (see also Hybrids)

1. early nesting -- Taylor, 1947
2. early, 1945 and 1946 -- Brigham, 1946
3. eastern bluebird in Alberta -- Butot, 1978a; Salt, 1978
4. eastern bluebird in Long Island -- Black, 1970
5. eastern female in Alberta -- Horn, 1985
6. longevity -- Kennard, 1975
7. Minnesota's first mountain bluebird nest -- Janssen, 1990
8. mountain and western bluebird, winter in Montana, -- Weydermeyer, 1935
9. mountain bluebird in Illinois -- Bohlen, 1982
10. mountain bluebird in Iowa -- Livingston, 1985; Thelen, 1989; Van Dyk, 1981
11. mountain bluebird in Michigan -- Ilnick, 1984
12. mountain bluebird in Minnesota -- Hiemenz, Voth & Friedrich, 1935; LaFond, 1978; Olin, 1943
13. mountain bluebird in Mississippi -- Whittington, 1980
14. mountain bluebird in North Carolina -- Boozer, 1986
15. mountain bluebird in North Dakota -- Kermott, Field & Trott, 1974
16. mountain bluebird in Oklahoma -- Riggs, 1956
17. mountain bluebird in Pennsylvania -- Wiltraut, 1986
18. mountain bluebird in Washington -- Edson, 1926

19. mountain bluebird in Wisconsin -- Brandel, 1984; Feeney; 1968; Follen, 1980; Idzikowski, 1988
20. mountain bluebirds, winter in Montana -- Weydemeyer, 1929
21. Northwest Territories -- Lok & Vank, 1986
22. southernmost mountain bluebird -- Church, 1982
23. western bluebird in Alberta -- Elphinstone, Spalding, & Bargman, 1984
24. western bluebird in Oklahoma -- Carter, 1971, 1972
25. wintering bluebird in British Columbia -- Weber et al., 1983

## Rehabilitation

1. bluebird rehabilitation -- Schaefer, 1984

## Reproduction (see also breeding biology)

1. annual productivity, measurement -- Pinkowski, 1979g
2. effects of DDT on -- McCuskey, Thomas & Meslow, 1977
3. effects of density -- Brawn, 1987b
4. effects of life history factors -- Brewer & Swander, 1977
5. effects of winter on -- Pitts, 1978d
6. environmental effects -- Brawn, 1991
7. error in adoption -- Plissner & Gowaty, 1988
8. fourth nesting -- Krueger, 1991b
9. growth energetics -- Mock, 1990
10. in pine plantations -- Hurst, 1983b
11. mountain bluebird -- Swenson, 1985
12. productivity -- Kruger, 1985a
13. productivity and habitat preference -- Van Horn & Bacon, 1989
14. site of attachment of -- Pinel, 1980
15. three broods -- Johnson, 1983

## Roosting

1. communal in winter -- Frazier & Nolan, 1959
2. monitoring in winter -- Green, 1987
3. roosting boxes, banding in winter -- Patterson, 1979b
4. winter site management -- Tuttle, 1987b

## Science

1. helps bluebird -- Arehart-Treichel, 1983

## Sex

1. criteria for sexing juveniles -- Pinkowski, 1974e
2. evolution of foraging behavior -- Power, 1974
3. identification of females -- Dunn, 1981

4. intersexual variation -- With & Balda, 1990
5. manipulation of sex ratios -- Gowaty, 1991
6. ratios -- Lombardo, 1982
7. sex-biased provisioning -- Droge, Gowaty & Weathers, 1991
8. sexual dimorphism -- Verner & Willson, 1969

#### Snags

1. artificiality in slash pine plantations -- Caine & Marion, 1991
2. cavities for secondary nesters -- Cunningham, 1977
3. for cavity nesters -- Conner, 1978
4. hole-nesting birds -- McClelland, 1977
5. loblolly pine nesting boxes in -- Hurst, 1983a
6. management -- Bull, 1978; Evans & Conner, 1979

#### Song

1. bluebird as mimic -- Saunders, 1887
2. development -- Haartshorne, 1962
3. mountain and western bluebird -- Weydemeyer, 1934
4. mountain bluebird -- Lumley, 1934
5. observations on vocalizations -- Pinkowski, 1971b
6. spectrogram classification -- Pinkowski, 1996

#### Sparrows, House

1. as foster parents -- Sturm & Zeleny, 1977
2. begging calls, individual & sex variation in -- Mock & Koenig, 1997
3. competition thwarted by experimental box -- Patterson, 1979
4. foiling -- Davis, 1991
5. kills nestlings -- Zeleny, 1984a
6. making trail sparrow-free -- Varner, 1964
7. predation by -- Gowaty, 1984
8. removal of nests -- McGrath, 1987
9. solenoid trap for -- Green, 1990
10. shun nest box -- Baxter, 1982
11. trap for -- Green, 1984; Therrien, 1996
12. use of small box -- Trickey, 1984
13. white or black boxes? -- Pitts, 1977

#### Squirrel

1. damage to nest boxes -- Wilde, 1977b
2. flying squirrel competition -- Stabb, Gartshore & Aird, 1989
3. mortality of red -- Allan, 1978

#### Starlings

1. age-dependent changes in bluebirds, starlings -- Gard & Hooper, 1993
2. choice of nest box -- Lumsden, 1986
3. eliminating with trap -- Zimmerman, 1985
4. movements -- Stewart, 1976a
5. nest site competition -- Zerhause, 1984, 1986, 1990, 1992
6. nest sites -- Davis & McComb, 1989
7. Peterson box no challenge to starlings -- Kridler, 1990
8. relation to other species -- Ferguson, 1936
9. slot-entrance excludes -- McComb, Davis & Allaire, 1987
10. starling-proof feeder -- Green, 1986
11. tests on hole sizes allowing entrance -- Lehmann, 1997

Swallows, Tree (see also pairing)

1. AGT feather care "boxes" -- Olorenshaw, 1996
2. balance with bluebirds -- Boone, 1982
3. banding -- Houston & Houston, 1987
4. bluebirds -- Hersey, 1933
5. breeding season -- Krieg, 1965
6. choice of nest box -- Lumsden, 1986, 1989
7. effects of late snowstorm -- Houston, 1982
8. nest site characteristics of natural cavities -- Rendell & Robertson, 1989
9. nest site selection -- Cohen, 1976
10. nesting in bluebird box -- Schwilling, 1990
11. nesting study on bluebird trail -- Rustad, 1972b
12. old nest material, effects on tree swallow nest choice, building -- Rendell & Verbeck, 1996c
13. Oregon, Washington and British Columbia -- Gillis, 1989
14. pairing to reduce competition -- Prescott, 1982
15. raised on bluebird trail -- Bartel, 1981
16. six-year study -- Tuttle, 1987a
17. tree swallow extra-pair paternity, not an artifact of nestboxes -- Barber, Robertson, & Boag, 1996
18. use of bluebird trail -- Halvorsen & Bacon, 1983

Swallows, Violet-green

1. interspecific competition -- Brawn, 1990
2. Oregon, Washington and British Columbia -- Gillis, 1989

Taming

1. bluebirds -- Bartlett, 1941
2. bluebirds in captivity -- Butler, 1907

Temperature (see also weather)

1. effects on nesting dates -- Brittner, 1990
2. nesting boxes -- Patterson, 1980; Zeleny, 1968a

#### Tragedy

1. bird -- Baker, 1942

#### Trail Management

1. impact of trail size on productivity -- O'Halloran, 1996
2. Connecticut Bluebird Restoration Project -- Rosgen & Zingo, 1993
3. guide to success -- Scriven, 1993
4. how to establish a trail -- Scharabok, 1997
5. in upper midwest -- Scriven, 1989
6. teaching -- Tuttle, 1994c & 1994d

#### Transmitter

1. home range determined by radio telemetry -- Sloan & Carlson, 1980
2. package -- Allen & Sweeney, 1989
3. tail-mounted -- Pitts, 1995

#### Trapping

1. automatic, for nest box -- Stewart, 1971
2. bluebirds lured to ground traps -- Nolan, 1954
3. capture techniques -- Gutzke, 1982
4. device for roosting birds -- Jackson, 1977
5. eliminating starlings -- Zimmerman, 1985
6. habituation of bluebirds to trap -- Pinkowski, 1978b
7. hand-net capture -- Gutzke, 1981
8. hole-nesting birds -- Fischer, 1944
9. house sparrows -- Green, 1984; Therrien, 1996
10. radio-controlled -- Kibler, 1968a
11. removing sparrows from top-opening box -- Krueger, 1985
12. simple nest box trap -- Stutchbury & Robertson, 1986
13. snake trap -- Krueger, 1991a
14. solenoid -- Green, 1990
15. variations on sparrow trap -- Trickey, 1984

#### Usurpation

1. by second pair of bluebirds -- Pitts, 1986
2. nuthatch evicts bluebirds -- Hartley, 1989
3. sapsucker nest holes -- Erskine & McLaren, 1972

#### Weather

1. cold snaps -- Musselman, 1939
2. cold weather killing nestlings -- Zeleny, 1986b
3. early spring snowstorm -- Pitts, 1988a
4. effects of winter on population and reproduction -- Pitts, 1978d
5. food during cold -- Pitts, 1979
6. ice storm -- Laskey, 1951
7. June cold takes toll -- Prescott, 1975
8. late snowstorm -- Houston, 1982
9. long, hot summer -- Power, 1989
10. needs of nestlings in heat -- Tuttle, 1989b
11. severe winter -- Pinkowski, 1979f
12. severe winter and populations -- Graber & Graber, 1979
13. snowstorm in Alabama -- Findlay, 1993
14. snowstorm mortality -- Eller, 1988
15. spring weather a killer -- Corkran, 1992
16. survival at -20° -- Harris, 1990
17. winter -- Zeleny, 1977b
18. winter in Great Lakes -- Powell, 1988
19. winter in maritimes -- Vickery, 1982
20. winter season in midwest prairie -- Peterjohn, 1983
21. winter 1961-1962 -- James, 1962

#### Woodpeckers

1. DDT residue in flicker eggs -- Olson, Meeker & Henny, 1977
2. habitat use in forest burn -- Harris, 1982
3. use of bluebird nest box -- Sims, 1998

#### Wren, House

1. and nesting bluebirds -- Hempel, 1919
2. choice of nest box -- Lumsden, 1986
3. coping with -- Pollock, 1989
4. DDT affects reproduction -- McCluskey, Thomas & Meslow, 1977
5. down with wren boxes -- Sherman, 1925a
6. function of sticks in house wren nests -- Alworth, 1996
7. nest destruction -- Belles-Isles & Picman, 1996
8. pro and con -- Swanson, 1926
9. problem of wren -- Sherman, 1925b
10. problems -- Zeleny, 1985c
11. removal of old nest material -- Johnson, 1996
12. tragedy -- Frost, 1925
13. vs. bluebirds -- Gardner, 1920; Varner & Birds, 1975; Waring, 1912